PATENT COOPERATION TREALY

From	the RNATIONAL SEARCHING	G AUTHORITY	時群					
To:			受 領 '05. 4.1		PCT			
	see form PCT/IS		RECEIVE		ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)			
				Date of mailing (day/month/year)	see form PCT/ISA/210 (second sheet)			
1	icant's or agent's file reference form PCT/ISA/220	е		FOR FURTHER ACTION See paragraph 2 below				
1	national application No. T/JP2004/014444	Interna 24.09	tional filing date (a. 2004	lay/month/year)	Priority date (day/month/year) 25.09.2003			
1	national Patent Classification 3G61/12, H01G9/00, H0		onal classification a	and IPC				
	icant OWA DENKO K. K.							
1.	This opinion contains	ndications rela	ating to the follo	owing items:				
	☑ Box No. I Basis o	of the opinion		_				
	☐ Box No. II Priority	•						
	_							
	 ☑ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☑ Box No. IV Lack of unity of invention 							
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	☐ Box No. VI Certain documents cited							
	☐ Box No. VII Certain	defects in the ir	nternational appl	ication				
	☐ Box No. VIII Certain	observations or	n the internation	al application				
2.	FURTHER ACTION							
-	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.							
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
	For further options, see Form PCT/ISA/220.							
3.	For further details, see no	otes to Form PC	T/ISA/220.		į			
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Name and mailing address of the ISA:

Authorized Officer

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Zeslawski, W



10/573415

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/014444

14P20 Rec'd PCT/PTO 27 MAR 2006

_	Box	c No	o. I Basis of the opinion					
1.	 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 							
		lan	is opinion has been established on the basis of a translation from the original language into the following iguage—, which is the language of a translation furnished for the purposes of international search inder Rules 12.3 and 23.1(b)).					
2.	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: 							
	a. ty	γpe	of material:					
]	a sequence listing					
)	table(s) related to the sequence listing					
b. format of material:								
		_	in written format					
]	in computer readable form					
c. time of filing/furnishing:								
]	contained in the international application as filed.					
	Е]	filed together with the international application in computer readable form.					
]	furnished subsequently to this Authority for the purposes of search.					
3.		nas cop	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional bies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.					
4.	Additional comments							

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/014444

_	Bo	k No. II	Priority
1.	\boxtimes	The foll	lowing document has not been furnished:
		\boxtimes	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).
		Consec neverth	quently it has not been possible to consider the validity of the priority claim. This opinion has eless been established on the assumption that the relevant date is the claimed priority date.
2.		has bee	inion has been established as if no priority had been claimed due to the fact that the priority claim en found invalid (Rules 43 <i>bis.</i> 1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date.
3.		a copy Search	ernational Searching Authority has not been able to consider the validity of the priority claim because of the earlier application whose priority has been claimed was not available to the International ing Authority at the time that the search was conducted (Rule 17.1). This opinion has nevertheless stablished on the assumption that the relevant date is the claimed priority date.
4.	Add	litional o	bservations, if necessary:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(F)

International application No. PCT/JP2004/014444

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:						
	the entire international application,					
\boxtimes	claims Nos. 23-32					
bed	cause:					
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
\boxtimes	no international search report has been established for the whole application or for said claims Nos. 23-32					
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Anr C of the Administrative Instructions in that:					
	the written form		has not been furnished			
			does not comply with the standard			
	the computer readable form		has not been furnished			
			does not comply with the standard			
	the tables related to the nucleon not comply with the technical re	tide a equire	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.			
	See separate sheet for further of	detail	s			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/014444

	Во	x No. IV	Lack of unity o	finventio	n					
1. ☑ In response to the invitation (Form PCT/ISA/206) to pay additional fees, the applicant has:										
			paid additional fee	es.						
			paid additional fee	es under p	rotest.			•		
			not paid additiona	l fees.						
2.		☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.								
3.	This	s Author	rity considers that t	he require	ment of un	ity of invent	tion in accord	lance with F	Rule 13.1,	13.2 and 13.3 is
		complied	d with							
	⊠ ı	not com	plied with for the fo	llowing rea	asons:					
		see se	parate sheet							
4.	Cor	nsequen	tly, this report has	been estal	olished in r	espect of th	ne following p	arts of the i	internation	al application:
	□ all parts.							•		
	☑ the parts relating to claims Nos. 1-22									
		-	-							
		c No. V ustrial a	Reasoned state	ment und ons and e	er Rule 43 explanatio	B <i>bis</i> .1(a)(i) ons suppor	with regard ting such st	to novelty, atement	inventive	step or
1.	Stat	tement								
	Nov	elty (N)		Yes: No:	Claims Claims	1-22				
						1-22				
	Inve	entive st	ep (IS)	Yes:		1.00				
				No:	Claims	1-22				
	Indu	ıstrial ap	oplicability (IA)	Yes: No:	Claims Claims	1-22				

2. Citations and explanations

see separate sheet



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/JP2004/014444

Re Item IV.

1

The separate inventions are:

Invention 1

Claims: 1-22 Pi-conjugated copolymers comprising pyrrole and thiophene units, and a production method thereof.

Invention 2

Claims: 23-32 A method for producing solid capacitors

They are not so linked as to form a single general inventive concept (Rule 13.1 PCT) for the following reasons:

The only common concept linking together the invention 1 and 2 is the presence of a pi-conjugated copolymer comprising pyrrole and thiophene units. The pi-conjugated polymers comprising the said units are not novel over each of documents D1-D7.

Re Item V.

The following documents are referred to in this communication:

D1: US 4 568 483 A (KOEHLER GERNOT ET AL) 4 February 1986 (1986-02-04)

D2: US 4 769 430 A (NAITOH SHIGEKI) 6 September 1988 (1988-09-06)

D3: EP 0 340 826 A (PHILIPS NV) 8 November 1989 (1989-11-08)

D4: US 5 093 033 A (WEGENER PETER ET AL) 3 March 1992 (1992-03-03)

D5: JP 02 098915 A (SHOWA DENKO KK) 11 April 1990 (1990-04-11)

D6: JP 11 292957 A (CANON INC) 26 October 1999 (1999-10-26)

2 Novelty (Art.33(2) PCT)

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

Each of the cited documents D1-D6 discloses a π -conjugated copolymer comprising pyrrole and thiophene units represented by the general formula (I) of the claim 1 of the present application, wherein the composition ratio of pyrrole to thiophene units in the π -conjugated copolymer is between 0:100 and 75:100 (D1: ex.5; D2: ex.1; D3: p.4 l.12-27, and p.8 l.25; D4: ex.19; D5: ex.1; D6: examples). Furthermore, the π -

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/JP2004/014444

conjugated copolymer can contain a counter anion (D1: col.3 l.63 to col.4 l.22, ex. 7, 8; D2: col.6 l.46-58; D3; p.5 l.48-46; D4: col.5 l.25-41; D5: p.72).

Therefore, claims 1 and 2 are not novel over each of the cited documents D1-D5(D6).

- 3 Inventive Step (Art.33(3) PCT)
- 3.1 Providing an amended main claim which meets the requirements of Art. 33PCT, the applicant should relate the distinguishing feature to a surprising (unexpected) technical effect or make credible or plausible that the distinguishing feature is not derivable from the prior art teaching.